


Keng-Yu Chen

 [kengyuchen](https://github.com/kengyuchen)  kengyuch@gmail.com  [kengyuchen.github.io](https://github.com/kengyuchen.github.io)

EDUCATION

- Master of Science in Computer Science** Sep. 2022 – Jan. 2024
Graduate Institute of Electrical Engineering, National Taiwan University
Thesis Advisor: Jiun-Peng Chen & Ho-Lin Chen
GPA: 4.15/4.3 (3.95/4.0)
- Bachelor of Science in Computer Science & Information Engineering** Sep. 2018 – Jun. 2022
Department of Computer Science & Information Engineering, National Taiwan University
GPA: 3.89/4.3 (3.73/4.0)
Last 60 GPA: 4.11/4.3 (3.88/4.0)
Major GPA: 4.13/4.3 (3.96/4.0)
- (Double Major) Bachelor of Science in Mathematics** Sep. 2018 – Jun. 2022
Department of Mathematics, National Taiwan University

PUBLICATION

- Masking Floating-Point Number Multiplication and Addition of Falcon
Keng-Yu Chen, Jiun-Peng Chen
IACR Transactions on Cryptographic Hardware and Embedded Systems, 2024

RESEARCH EXPERIENCE

- Side-Channel Analysis Laboratory** Jun. 2020 – Feb. 2024
- * Department of Electrical Engineering, National Taiwan University
 - * Principal Investigator: Jiun-Peng Chen
 - * Researching all topics of side-channel analysis on lattice-based post-quantum cryptography
- Adjunct Research Assistant** Sep. 2020 – Oct. 2023
- * Research Center for Information Technology Innovation, Academia Sinica
 - * Principal Investigator: Jiun-Peng Chen
 - * Studying and implementing side-channel analysis on concrete cryptographic schemes such as Elliptic Curve Cryptography and NTRU Prime key encapsulation mechanism
- Research Intern** Jul. 2023 – Aug. 2023
- * Institute of Information Science, Academia Sinica
 - * Advisor: Kai-Min Chung
 - * Surveying recent research in theoretical cryptography, mostly in instantiability of schemes in the random oracle model, encrypt-then-sign paradigm, and quantum homomorphic encryption

HONORS AND AWARDS

- Champion — Innovation Application Competition of Digital Twins
for Smart Farming** Oct. 2022
Council of Agriculture, Executive Yuan, Taiwan
- Academic Achievement Award** Apr. 2019
Department of Computer Science & Information Engineering, National Taiwan University

COURSEWORK

- Relevant Courses** Sep. 2018 – Jun. 2023
- * Introduction to Cryptography (A)
 - * Formal Languages and Automata Theory (A)
 - * Computer Architecture (A+)
 - * Post-quantum Cryptography (A+)
 - * Advanced Digital Signal Processing (A+)
 - * Theoretical Aspects of Modern Cryptography (A)
 - * Advanced Algorithm (A)
 - * Quantum Information and Computation (A+)

WORKING EXPERIENCE

- Teaching Assistant** Sep. 2020 – Jan. 2021
Calculus (1)(2)
Teacher: Ya-Ju Tsai

OTHER EXPERIENCE

- Attendee — Theory of Cryptography Conference 2023** Nov. 2023
Taipei, Taiwan
- Attendee — Asiacrypt 2022** Dec. 2022
Taipei, Taiwan
- Attendee — Postquantum Crypto Minischool** Jul. 2022
Academia Sinica, Taiwan

EXTRACURRICULAR ACTIVITY

- Public Address (PA) Team** Sep. 2019 – Jun. 2021
- * Student Activity Center, National Taiwan University
 - * Operating audio and lighting systems for stage performances at the school's auditorium, including microphones, audio mixers, speakers, and lighting consoles
- Equipment Team** Feb. 2019 – Jun. 2021
- * Tainan Alumni Association, National Taiwan University
 - * Coping with all the work behind the scenes for stage performances, including stage lighting, audio systems, photography, and videography

ADDITIONAL SKILLS

- Programming:** C/C++, Python, Verilog, Makefile, MATLAB, R
- Tools:** Git/GitHub, ChipWhisperer, L^AT_EX
- Languages:** English (IELTS Score: 7.5), Chinese (Native)